

MUC1/CA15-3 C-terminal Recombinant antibody

Catalog Number: 83311-4-RR

Basic Information

Catalog Number: 83311-4-RR	GenBank Accession Number: BC120975	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 4582	CloneNo.: 240190G10
Source: Rabbit	UNIPROT ID: P15941	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:400-1:1600
Isotype: IgG	Full Name: mucin 1, cell surface associated	
Immunogen Catalog Number: AG20366	Calculated MW: 1264 aa, 123 kDa Observed MW: 23-30 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, mouse

Note-IHC: suggested antigen retrieval with **TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : BxPC-3 cells, mouse lung tissue

IHC : human stomach cancer tissue, human ovary cancer tissue, human rectal cancer tissue, human tonsillitis tissue

Background Information

MUC1 is a type I transmembrane glycoprotein expressed by various epithelial cells of the female reproductive tract, lung, breast, kidney, stomach, and pancreas. MUC1 is transcribed as a large precursor gene product, and upon translation, is cleaved in the endoplasmic reticulum, yielding two subunits: the large extracellular N-terminal subunit (MUC1-N, about 120-200 kDa) and the small cytoplasmic C-terminal subunit (MUC1-C, about 23-30 kDa). Among the known mucins, MUC1 is best studied and plays crucial roles in regulating many cellular properties, including cell proliferation, apoptosis, adhesion, and invasion. MUC1 is overexpressed in a wide range of human epithelial malignancies. This antibody was raised against the C-terminal region of human MUC1, thus it recognizes the 23-30 kDa cytoplasmic MUC1.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

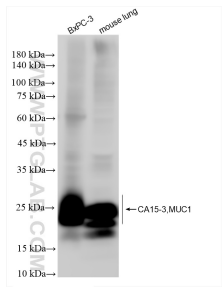
T: 4006900926

E: Proteintech-CN@ptglab.com

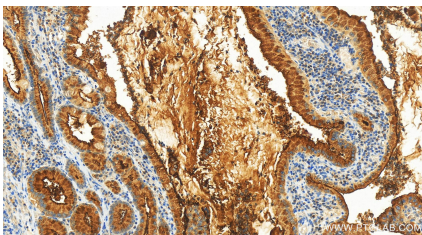
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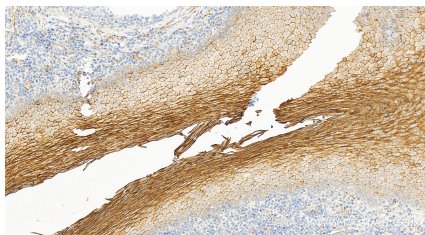
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83311-4-RR (MUC1/CA15-3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



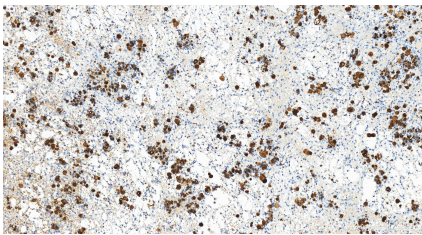
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 83311-4-RR (MUC1/CA15-3 C-terminal antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH9).



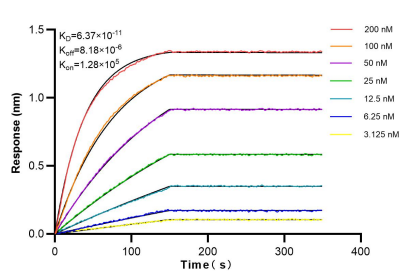
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 83311-4-RR (MUC1/CA15-3 C-terminal antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 83311-4-RR (MUC1/CA15-3 C-terminal antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83311-4-RR (MUC1/CA15-3 C-terminal antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83311-4-RR against Human CA15-3/MUC1 were performed. The affinity constant is 63.7 pM.